

FIGURE 1 Comparison of the Corn, Soybean (2), and Arabidopsis Sterol Delta-14 Reductases

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p0097.cqrau67ra_fis.PRO
src3c.pk009.c1_fis.PRO
ssm.pk0031.d12_fis.PRO
8917585_(Arabidopsis).PRO
-----
M-----MESHVDLGFLQLQALTPSWNSVPLLVG-----
M-----MESHVDLGFLQLQALTPSWNSVPLLVG-----
M-----DLGVLLPSL-----QSVYVLVF-----
-----
p0097.cqrau67ra_fis.PRO
src3c.pk009.c1_fis.PRO
ssm.pk0031.d12_fis.PRO
8917585_(Arabidopsis).PRO
-----
PRVR-----KNKVELSLLSGLANLC-
-----FFTYLAVAGSILPGKLVPGVALLDGTTRLHYCCNGLLSLLLVALLGIGA
-----FFTYLAVAGSILPGKLVPGVALLDGTTRLHYCCNGLLSLLLVALLGIGA
-----YFVYLAVAGEILPGKVIRGVLLSDGSQLRYRCNGLLALILLVAILGICA
-----
p0097.cqrau67ra_fis.PRO
src3c.pk009.c1_fis.PRO
ssm.pk0031.d12_fis.PRO
8917585_(Arabidopsis).PRO
-----
KMGFVSPT-----AISDRGLELLSTTFAFSLVTLILHFSGCKSQSKGSS--LKPH-LSG
KMGFVSPT-----AISDRGLELLSTTFAFSLVTLILHFSGCKSQSKGSS--LKPH-LSG
KLGIVSPL-----VVADRGLELLSATFIFCVLVTALYVTGRSSSNKGSS--LKPH-VSG
-----
p0097.cqrau67ra_fis.PRO
src3c.pk009.c1_fis.PRO
ssm.pk0031.d12_fis.PRO
8917585_(Arabidopsis).PRO
-----
NLIHDWFGIQLNPQFMG-IDLKFFF-VRAGMMGWLINLSILMKSIQ-DGTLQSMMILY
NLIHDWFGIQLNPQFMG-IDLK-----AGMMGWLINLSILMKSIQ-DGTLQSMMILY
NLVHDWFGIQLNPQFMS-IDLKFFF-VRAGMMGWLINLSILAKSVQ-DGSLQSMMILY
-----
p0097.cqrau67ra_fis.PRO
src3c.pk009.c1_fis.PRO
ssm.pk0031.d12_fis.PRO
8917585_(Arabidopsis).PRO
-----
QLFCALYILDYFVHEEYMTSTWDIIAERLGFMLVFGDLVMTFPFSIOGWLLMNSVELT
QLFCALYILDYFVHEEYMTSTWDIIAERLGFMLVFGDLVMTFPFSIOGWLLMNSVELT
QIFCALYILDYFVHEEYMTSTWDIIAERLGFMLVFGDLVMTFPFSIOGWLLHNKVELT
-----
p0097.cqrau67ra_fis.PRO
src3c.pk009.c1_fis.PRO
ssm.pk0031.d12_fis.PRO
8917585_(Arabidopsis).PRO
-----
PAAIVANCFVFLIGYMFVFGANKQKHVFKKPKAPIWGKPKKVV---GGKLLASGYWGIA
PAAIVANCFVFLIGYMFVFGANKQKHVFKKPKAPIWGKPKKVI---GGKLLASGYWGIA
PAAIVANCFVFLIGYMFVFGANKQKHVFKKPKAPIWGKPKKVI---GGKLLASGYWGIA
VPAIVVNCLVFLIGYMFVFGANKQKHIFKKNPKTPIWGKPPVVV---GGKLLVSGYWGIA

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FIGURE 1 (page 2 of 2)

p0097.cgrau67ra_fis.PRO RHCNYLGDLLLALSFSLSLPCGVSSVVPYFYPTYLLILLVLRRDEARCSQKYREIWAEC
src3c.pk009.c1_fis.PRO RHCNYLGDLMLALSFSLSLPCGISSPIPYFYPIYLLILLIWRERDEARCAEKYREIWAEC
ssm.pk0031.d12_fis.PRO RHCNYLGDLMLALSFSLSLPCGISSPIPYFYPIYLLILLIWRERTDEARCAEKYREIWAEC
8917585_(Arabidopsis).PRO RHCNYLGDLMLALSFSLSLPCGISSVVPYFYPIYLLILLIWRERDEVRCAEKYKEIWAEC

p0097.cgrau67ra_fis.PRO KLVPRILPYVY
src3c.pk009.c1_fis.PRO KLVPRILPYVY
ssm.pk0031.d12_fis.PRO KLVPRILPYVY
8917585_(Arabidopsis).PRO RLVPRILPYVY